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- 1410 90** *Global Forest Observatories: An International Network Monitoring the Health of Tropical Forests*, **STUART J. DAVIES** (Center for Tropical Forest Science, Smithsonian Tropical Research Institute and the Arnold Arboretum of Harvard University, Cambridge MA)
- 1430 91** *DNA Barcoding: International Collaboration for Species Identification in Research, Conservation, and Regulatory Affairs*, **DAVID E. SCHINDEL** (Executive Secretary, Consortium for the Barcode of Life, Smithsonian Institution, Washington DC)
- 1450 BREAK**
- 1510 92** *Global Collaboration to Address Global Problems: Trans-Pacific Collaboration for Research on Global Change and Sustainable Living on Arid Lands*, ***J. SCOTT HAUGER**¹, **QINGWEI SUN**² and **ATSUSHI TSUNEKAWA**³ (¹Desert Research Institute, Reno, NV; ²Cold and Arid Regions Environmental and Engineering Research Institute, Lanzhou, China; ³Arid Land Research Center, Tottori University, Tottori, Japan)
- 1530 93** *Exploring the Unanticipated Consequences of Ocean Acidification by Fossil Fuel CO₂*, **PETER G. BREWER** (Monterey Bay Aquarium Research Institute, Moss Landing, CA)
- 1550 94** *International Scientific Collaboration at the NOAA Pacific Islands Fisheries Science Center*, **SAMUEL G. POOLEY** (NOAA's Pacific Islands Fisheries Science Center, Honolulu, HI)

Thursday, 19 June 2008**Asian American Women: Health and Welfare**

Kono Center for English Studies

Thursday

8:00 AM – 9:45 AM

Program Organizer: *Alan L. Bain* (Smithsonian Institution Archives)

Sponsored by the Pacific Division sections on Anthropology and Archaeology, and Social, Economic and Political Sciences

Most Americans consider Asian Americans model communities. These ideas are reflected in the number of Asian Americans who attend universities and the belief that most Asian American communities are either entrepreneurial, reflected in the companies in Silicon Valley, or small business shop owners, located within communities within high crime areas, reflected in the stories about Los Angeles and the articles on store-front businesses in Washington, DC. The reality is that for Asian American women there are major, hidden problems that Americans are unaware of, poverty, lack of health care and welfare support, and high rates of cancer, and suicide.

This session takes a hard and frank look at the problems that Asian American women face in the United States. This is the only group in America where cancer is the leading cause of death. Cultural and linguistic barriers prevent cancer screening, but health insurance coverage and health care coverage play dominant roles in gaining access to physicians. Low-income Asian immigrant women have little access to prenatal care; and the roles of women and daughters within the Asian American communities, based on race and gender, racism and sexism and the pressures to perform well lead to depression and suicide.

Session Chair: Alan L. Bain

0800 *Introductory Comments*

0810 95 *The Role of Health Insurance and the Safety Net in Reducing Cancer Screening Disparities Among Asian American Women*, **NINEZ A. PONCE** (Department of Health Services, UCLA School of Public Health, University of California, Los Angeles CA)

0845 96 *Suicide and Depression Among Asian American Women*, **ELIZA NOH** (Asian American Studies Program, California State University, Fullerton, CA)

0925 *General Discussion***Past and Future of the Fauna of the Pacific Basin**

Gerry Clark Art Center

Thursday

8:20 AM – 11:40 AM

Organized by: *David R. Lindberg* (University of California Museum of Paleontology, Berkeley, CA)

Sponsored by the Pacific Division section on Ecology, Organismal Biology and Environmental Sciences.

The Pacific Basin is one of the oldest ocean basins on Earth and its fauna renowned for its diversity and abundance. This symposium will examine the history and origin of the Pacific Ocean and the marine taxa that inhabit the basin, the islands, and the rim. Special emphasis will be placed in the relationship and interaction between the geological history of the area and the evolution of the fauna (e.g., active vs. passive margins and intertidal faunas, high and low islands and reef diversity, rifting and vent faunas, etc.), and how these interactions have led to current distributions and diversity patterns. With this background, the symposium will then explore the future of these faunas and habitats with respect to global climate change and warming. While changes in latitudinal temperature regimes are obvious consequences of global warming, the symposium will also address consequences of sea level lowering. This latter phenomenon having major effects on island size, habitat availability and even major current direction and intensity (e.g., shallowing of the Arafura Sea between Indonesia and Australia).

Session Chair: David R. Lindberg

0820 *Introductory Comments*

0830 97 *Climate Change in the Pacific Basin: Past and Future*, **DAVID R. LINDBERG** (University of California Museum of Paleontology, Berkeley, CA)

0910 98 *Late Ordovician Climate Change: Related Biodiversity Changes*, **WILLIAM B. N. BERRY** (Department of Earth and Planetary Science, University of California, Berkeley, CA)

0950 BREAK

1010 99 *Documenting Species Diversity Along the Verde Island Passage, Philippines: The Apex of the Coral Triangle*, **TERRENCE M. GOSLINER** (California Academy of Sciences, San Francisco, CA)

1050 100 *Islands, Evolution and Feral Animals*, **MARGARET GOULD BURKE** (California Academy of Sciences, San Francisco, CA)

1130 *Closing Comments*, David R. Lindberg

North Meets South: Special Neuroscience Research Programs in the Pacific

Library
Thursday
9:00 AM – 12:00 PM

Organized by: *Lawrence Duffy* (Associate Dean, College of Natural Science and Mathematics, University of Alaska Fairbanks, Fairbanks, AL), *Linda Chang* and *John Spiess* (Department of Medicine, John A. Burns School of Medicine, University of Hawaii, Honolulu, HI).

Sponsored by the Pacific Division Health Sciences Section.

Although Arctic and Hawaiian Peoples are very diverse and share a variety of health and environmental issues unique to the region, they suffer from common minority health disparities such as stroke, depression, sleep disorders, cancer and developmental deficits related to environmental con-

taminants. Scientific research exploring these health issues and disparities offers significant opportunities and challenges. Success in applying the advanced scientific tools of neuroscience to the challenges of health disparities, in general, depends upon respect for the indigenous people and minority cultures that face these health challenges.

Investigators working within the National Institute of Neurological Disorders and Stroke (NINDS) Specialized Neuroscience Research Programs (SNRP) recognize the value of a state-of-the-art conference.

Our aims are to 1) present ongoing research in Alaskan and Hawaiian neuroscience research priorities and 2) expose graduate students and undergraduate students to neuroscience research with students from other neuroscience programs.

Neuroscience research that might be pursued with minority populations comprises three areas: 1. basic experimental studies; 2. observational studies; and 3. clinical trials/interventions. It would be useful to identify how these particular designs may be utilized to address research hypotheses that are uniquely translatable to Arctic and Hawaiian Peoples. Despite the logistical difficulties and expense, research objectives in the Alaska and Hawaii should be pursued simply because they cannot be replicated in areas more hospitable to research. Among the research questions that can be addressed most appropriately are those that derive from the unique risk profile of the inhabitants, their geographical isolation, limited dietary choices, high exposure to some contaminants and limited health care delivery, in some areas. Research priorities should consider an indigenous perspective.

The dearth of data documenting neuroscience related problems in Alaska and Hawaii is due, in part, to the formidable obstacles facing researchers. Physical obstacles include population density, weather conditions and the difficulties associated with transporting personnel, equipment and samples to the communities where many indigenous people reside. Research is additionally hampered by the shortage of researchers and trained technicians; housing, laboratories and clinic space and associated apparatus such as imaging equipment and freezers. Finally, cultural differences and prior negative experiences, offer a special challenge to investigators who wish to conduct culturally sensitive research that is scientifically meritorious and of true benefit to the participants and the overall community.

The expected outcomes from this symposium include: 1. Identification of current neuroscience research that may be uniquely addressed. 2. Improved communication between research scientists and clinicians around the Pacific and 3. Identification of innovative strategies and opportunities for developing diverse neuroscience research efforts and the recruitment of health professionals who can translate research benefits to medical care for at risk Alaskan and Hawaiian Native Peoples.

Session Chair: Lawrence Duffy

0900 101 *North Pacific Exposure: Neuroscience, Melatonin and Behavioral Health in the North Pacific*, ***LAWRENCE K. DUFFY¹, KRYIA DUNLAP¹, ARLEIGH REYNOLDS², ABEL BULT-ITO¹, KIMBERLY CLAPP¹ and GIANLUCCA TOSINI³** (¹Specialized Neuroscience Research Program, University of Alaska Fairbanks, Fairbanks, AK; ²Nestle-Purina Research Station, Salcha, AK; ³Specialized Neuroscience Research Program, Morehouse School of Medicine, Atlanta, GA)

0930 102 *Mu-opioid and NK1 Receptor Immunofluorescence and Involvement in the Neuroventilation Bullfrogs*, ***BRITTANY L. DAVIES, CORD M. BRUNDAGE and BARBARA E. TAYLOR** (Institute of Arctic Biology, University of Alaska Fairbanks, Fairbanks, AK)

1000 BREAK

1030 103 *Chronic Ethanol Exposure Causes a Persistent Developmental Deficit in the Neuroventilatory Response to CO₂*,

***CORD M. BRUNDAGE** and **BARBARA E. TAYLOR**
(Institute of Arctic Biology, University of Alaska Fairbanks,
Fairbanks, AK)

1100 104 *Pharmacology of a Novel Positive Allosteric Modulator for Neuronal Nicotinic Receptors*, ***ANSHUL PANDYA**¹, **MAEGAN WELTZIN**¹, **BRIAN EDMONDS**², **MARVIN SCHULTE**¹ and **RICHARD GLENNON**³ (¹Department of Chemistry and Biochemistry, University of Alaska Fairbanks, Fairbanks, AK; ²Department of Biology and Marine Biology, School of Arts and Science, University of Alaska Southeast, Juneau, AK; ³Department of Medicinal Chemistry, School of Pharmacy, Virginia Commonwealth University, Richmond, VA)

1130 105 *Dose Dependent Effects of Arsenic Exposure on Morphology, Caspase-3 Activation, and Metabolic Status of SH-SY5Y Neuroblastoma Cells*, ***MARINA R. CASTILLO**, **EMMA FLORES**, **NJIDEKA CHUWKU** and **CARLA CARTAGENA** (Department of Chemistry and Biochemistry, Biochemistry and Molecular Biology Program, College of Science, Engineering and Mathematics, University of Alaska Fairbanks, Fairbanks AK)

Hawaii Archives: Records and Special Collections

Kono Center for English Studies

Thursday

10:00 AM – 12:50 PM

Program Organizer: *Alan L. Bain* (Smithsonian Institution Archives)

Sponsored by the Pacific Division section on Anthropology and Archaeology

Institutional records, special subject collections and individual personal papers provide public and scholar with access to the celebrations of life and death, important and trivial events, and the struggles of institutions and individuals, without which we would be bereft of our history and knowledge of the past. Archivists and librarians (who are in charge of manuscript collections) collect, preserve and describe this historical material when they become available and are transferred to a repository, where they are maintained for as long as the informational contents are serviceable. This session is devoted to a discussion of some of the rich and varied archives that document the history of Hawaii and the life of Hawaii's people.

Hawaii's plantation records are a vast resource of economic, social, environmental and financial information. They document the living quarters of workers, their medical history, and labor, ethnic and racial tensions. This discussion includes the records of the Hawaiian Sugar Planters' Association (HSPA); lesser known plantation records and other industry records housed at the Mamiya Medical Heritage Center in Honolulu and the Lyman Memorial House Museum in Hilo; the papers of Dr. Nils Larsen, associated with HSPA; and observations why some plantations never sent their records to an archive and/or destroyed their records.

Hawaii's medical records can also be used for anthropological research. The researcher must be cognizant that such records come under privacy, ethical and practical issues regarding use and access to the files. One such group of records is maintained at the Kapi'olani Medical Center for Women and Children. Dr. Charles Wetmore, who arrived in Hawai'i in 1840, was sent from Boston with the Protestant Missions to the Sandwich Islands. His daughter, Frances, became the first woman doctor in Hawai'i. The Wetmore

family papers are located in the archives at the Lyman Museum, Hilo.

Archives are not only available as research material, but may also be used in developing exhibitions. Emma Metcalf Beckley Nakuina, an intellectual who was descended from Hawaiian chiefs on her mother's side, was curator at the Hawaii National Museum from 1883 to 1887. While there, she provided artifacts and other documents for a number of world's fairs. Recently, an exhibition regarding her activities was displayed by the Hawaii State Library.

Session Chair: Alan L. Bain

1000 *Introductory Comments*

MEDICAL ARCHIVES

1010 106 *Adventures in Medical Archives: Access and Use of Medical Archives and Databases at Kapi'olani Medical Center for Women and Children*, **MARCELLA ALOHALANI BOIDA** (Research and Database Associate, Retinopathy of Prematurity Subproject, Research in Minorities in Institutions Project, University of Hawaii at Hilo, Hilo, HI)

1035 107 *The Doctors Wetmore: Hilo's First Family of Medicine*, **LIBBY BURKE** (Archivist, Lyman Museum, Hilo, HI)

1100 *Questions*

PLANTATION AND OTHER INDUSTRY ARCHIVES

1110 108 *Hawaiian Sugar Planters' Association Plantation Archives*, **DORE MINATODANI** (Librarian, Hawaii Specialist, Hawaiian Collection, University of Hawaii at Manoa Library, Honolulu, HI)

1135 109 *Identifying and Accessing the Lesser Known Archival Collections*, **HELEN WONG SMITH** (Librarian and Archivist, Edwin H. Mookini Library, University of Hawai'i at Hilo, Hilo, HI)

1200 *Questions*

WORLD'S FAIRS AND EXHIBITIONS

1210 110 *Contribution of the Hawaiian National Museum to the Hawaii Exhibits at World's Fairs in the 1880's*, **MARTHA HOVERSON** (Hawaii Documents Librarian, Hawaii and Pacific Collection, Hawaii State Library, Honolulu, HI)

1235 *Questions/General Discussion*

Impacts of Disease on Native Hawaiian Species

Castle Lecture Hall

Thursday

10:00 AM – 3:00 PM

Program Organizer: Susan I. Jarvi (Department of Biology, University of Hawaii at Hilo, Hilo, HI)

Sponsored by the Pacific Division section on Ecology, Organismal Biology and Environmental Sciences.

This symposium provides current information and discussion on the consequences of introduced disease on native Hawaiian species. Speakers address

a number of diverse host-parasite relationships involving native Hawaiian species and how they influence populations. Various diseases currently impacting marine life including turtles, shrimp, and corals as well as terrestrial plants of Hawaii will be presented. The impacts of avian malaria, and *Avipoxvirus* and the potential impacts of West Nile Virus will be discussed in a variety of native birds as well as the genetic diversity of these pathogens. Recent studies involving vaccines for West Nile virus and avian malaria will be presented.

Session Chair: Susan I. Jarvi

1000 111 *Don't Use That Shrimp For Bait!* ***T.D. LEWIS, D. MONTGOMERY-BROCK, A.R. EGGERS and J.C. LEONG** (Hawaii Institute of Marine Biology, School of Ocean and Earth Science and Technology, University of Hawaii at Manoa, Kaneohe HI)

1030 112 *Investigations of Coral Disease across the Hawaiian Archipelago*, ***THIERRY WORK¹ and GRETA AEBY²** (¹USGS-National Wildlife Health Center, Honolulu Field Station, Honolulu, HI; ²Hawaii Institute of Marine Biology, Kaneohe, HI)

1100 113 *Pathology and Pathogenesis of Disease in Sea Turtles from Hawaii*, ***THIERRY WORK¹ and GEORGE BALAZS²** (¹USGS-National Wildlife Health Center, Honolulu Field Station, Honolulu, HI; ²Marine Turtle Research Program, NOAA, National Marine Fisheries Service, Pacific Islands Fisheries Science Center, Honolulu, HI)

1130 114 *Climate Change, Avian Malaria, and Endemic Hawaiian Forest Birds: Dynamics of a Changing System*, ***CARTER T. ATKINSON¹, DENNIS A. LAPOINTE¹, BETHANY L. WOODWORTH¹, and MICHAEL D. SAMUEL²** (¹U.S. Geological Survey, Pacific Island Ecosystems Research Center, Hawaii National Park, HI; ²Wisconsin Cooperative Wildlife Research Unit, University of Wisconsin, Madison)

1200 LUNCH

1300 115 *Genetic Diversity of Avian Pathogens in East Hawaii*, ***MARGARET E.M. FARIAS¹, CARTER T. ATKINSON², ALEXIS GIANNOULIS¹ and SUSAN I. JARVI¹** (¹Department of Biology, University of Hawaii at Hilo, Hilo, HI; ²U.S. Geological Survey-Biological Resources Discipline, Pacific Island Ecosystems Research Center, Hawaii National Park, HI)

1330 116 *Efficacy of Irradiated Sporozoites as a Vaccine for Avian Malaria (Plasmodium relictum)*, ***D. ALLAN HALL¹, CARTER T. ATKINSON² and SUSAN I. JARVI¹** (¹University of Hawaii at Hilo, Biology Department, Hilo HI; ²U.S. Geological Survey, Pacific Island Ecosystems Research Center, Hawaii National Park, HI)

1400 117 *Experimental Infections of Hawaii Amakihi and Mortality Due to West Nile Virus*, ***DENNIS A. LAPOINTE¹, ERIK HOFMEISTER², CARTER T. ATKINSON¹, and ROBERT J. DUSEK²** (¹U.S. Geological Survey, Pacific Island Ecosystems Research Center, Hawaii National Park,

HI; ²U.S. Geological Survey, National Wildlife Health Center, Madison, WI)

1430 118 *Protective Efficacy of a Recombinant Subunit West Nile Virus Vaccine in Domestic Geese (Anser anser): A Surrogate Species for Vaccination of the Endangered Nēnē (Branta sandvicensis)*, **SUSAN I. JARVI¹, MICHAEL M. LIEBERMAN², ERIK HOFMEISTER³, VIVEK R. NERURKAR⁴, TERI WONG², and CAROLYN WEEKS-LEVY²** (¹Department of Biology, University of Hawaii at Hilo, Hilo, HI; ²Hawaii Biotech, Inc., Aiea, HI; ³USGS National Wildlife Health Center, Madison, WI; ⁴University of Hawaii at Manoa, Department of Tropical Medicine, Medical Microbiology and Pharmacology, John A. Burns School of Medicine, Honolulu, HI)